

WHAT IS CLAIMED IS:

1. A stator for an alternator, said stator comprising:

a cylindrical stator core formed circumferentially with a number of slots extending axially; and

a stator winding composed of a three-phase stator winding portion constructed by connecting three winding phase portions into a three-phase star connection, each of said winding phase portions being installed in said stator core by sequentially inserting strands of wire into said slots at predetermined intervals and a neutral point of said stator winding being electrically connected to a rectifier for rectifying alternating-current output, wherein

each of said strands of wire constituting said three winding phase portions is led out from a coil end group of said stator winding to an outer side to constitute a neutral-point terminal,

each of said neutral-point terminals has a flat side surface portion, and

a neutral-point joint portion of said stator winding is constructed by abutting and electrically joining said flat side surface portions of said neutral-point terminals.

2. The stator for an alternator according to Claim 1 wherein said strands of wire are conducting wires having a rectangular cross section.

3. The stator for an alternator according to Claim 1 wherein said neutral-point terminals of said strands of wire constituting said three winding phase portions comprise:

a first neutral-point terminal positioned centrally in a circumferential direction, said first neutral-point terminal being led axially outwards from said coil end group to constitute a neutral-point lead portion connected to said rectifier; and

second and third neutral-point terminals positioned on first and second sides in the circumferential direction, each being led axially outwards from said coil end group, then bent, and led around to said first neutral-point terminal,

wherein said side surface portions at tips of said second and third neutral-point terminals are abutted and electrically joined from said first

and second sides in the circumferential direction to said side surface portions of a portion of said first neutral-point terminal led out from said coil end group.

4. The stator for an alternator according to Claim 1 further comprising a connecting member composed of a conductor having flat side surface portions, said flat side surface portions of said neutral-point terminals and said connecting member being abutted and electrically joined to each other.

5. The stator for an alternator according to Claim 4 wherein said connecting member constitutes a neutral-point lead portion connected to said rectifier.

6. The stator for an alternator according to Claim 1 wherein at least a part of said neutral-point terminals extending from said coil end group to said outer side is secured to said coil end group by means of an electrically-insulating resin portion.

7. The stator for an alternator according to Claim 1 wherein said electrical joining is welding.